

FEROP0203US

Claims

5 1. A polymer composition comprising (A) from about 35% to about 75% by weight of at least one olefin homo- or copolymer, (B) from about 2% to about 12% by weight of at least one reaction product of an alpha, beta unsaturated carboxylic ester, acid, or anhydride and a polyolefin, and (C) from 5% to about 40% by weight of filler.

10 2. The composition of claim 1 wherein the olefin has from 2 to about 8 carbon atoms.

15 3. The composition of claim 1 wherein the olefin is selected from the group consisting of ethylene, propylene and butylene.

20 4. The composition of claim 1 wherein the polyolefin (A) is a polypropylene or an polypropylene-ethylene copolymer.

25 5. The composition of claim 1 wherein (A) has a melt flow from about 4 to about 15.

25 6. The composition of claim 1 wherein (A) is a combination of (i) at least one olefin homo- or copolymer having a melt flow from about 1 to about 6 and (ii) at least one olefin homo- or copolymer having a melt flow from about 8 to about 18.

25 7. The composition of claim 6 wherein (A) contains from about 20% to about 50% by weight of (i) and from about 50% to about 80% by weight of (ii).

25 8. The composition of claim 1 wherein the alpha, beta unsaturated carboxylic ester, acid or anhydride is selected from the group consisting of acrylic acids and esters, methacrylic acids and esters, and maleic acids, esters or anhydride.

9. The composition of claim 1 wherein (B) is a maleated polypropylene or a maleated propylene ethylene copolymer.

10. The composition of claim 1 wherein (B) is an acrylic acid or ester grafted polypropylene or ethylene-propylene copolymer.

5 11. The composition of claim 1 wherein the filler (C) is calcium carbonate.

10 12. The composition of claim 1 further comprising (D) from about 1% to about 8% by weight of a copolymer of ethylene and an olefin, (E) from about 1% to about 8% by weight of at least one polyamide, or (F) mixtures of (D) and (E).

15 13. A polymer composition comprising (A) from about 40% to about 70% by weight of at least one polypropylene or propylene-ethylene copolymer, (B) from about 2% to about 12% by weight of at least one reaction product of (i) an acrylic acid, acrylic ester, maleic acid or maleic anhydride and (ii) a polyolefin, and (C) from 15% to about 35% by weight of filler.

20 14. The composition of claim 13 wherein the filler (C) is calcium carbonate.

25 15. The composition of claim 13 further comprising (D) from about 1% to about 8% by weight of a copolymer of ethylene and an olefin, (E) from about 1% to about 8% by weight of at least one polyamide, or (F) mixtures of (D) and (E).

16. A polymer composition comprises (A) a combination of (i) a polypropylene or propylene copolymer having a melt flow from about 1.5 to about 4 and (ii) a polypropylene or propylene-ethylene copolymer having a melt flow from about 9 to about 14, (B) from about 2% to about 12% by weight of at least one reaction product of an alpha, beta unsaturated carboxylic ester, acid, or anhydride and a polyolefin, and (C) from 5% to about 40% by weight of filler.

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17. The composition of claim 16 wherein the filler (C) is calcium carbonate.
18. The composition of claim 16 further comprising (D) from about 1% to about 8% by weight of a copolymer of ethylene and an olefin having from about 6 to about 10 carbon atoms, (E) from about 1% to about 8% by weight of at least one nylon, or (F) mixtures of (D) and (E).
19. A polymer article prepared from the polymer composition of claim 1.
20. A polymer article prepared from the polymer composition of claim 13.
21. A polymer article prepared from the polymer composition of claim 16.
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